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PCT

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/555,780
 DATE: 12/26/2000
 TIME: 16:31:15

Input Set : A:\Pto.txt
 Output Set: N:\CRF3\12262000\I555780.raw

**Does Not Comply
 Corrected Diskette Needed**

```

3 <110> APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE
4 M
5 CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE
6 (C.N.
7 INSTITUT PASTEUR DE LILLE
8 GRAS-MASSE, Helene
9 BOSSUS, Marc
10 LIPPENS, Guy
11 WIERUSZESKI, Jean-Michel
12 TARTAR, Andre
13 GUILLET, Jean-Gerard
14 BOURGAULT-VILLADA, Tsabelle
16 <120> TITLE OF INVENTION: Mixed lipopeptide micelles for inducing an immune
17 response and their therapeutic uses.
19 <130> FILE REFERENCE: Lipopeptides-INSERM
C--> 21 <140> CURRENT APPLICATION NUMBER: US/09/555,780
C--> 22 <141> CURRENT FILING DATE: 2000-06-02
24 <150> PRIOR APPLICATION NUMBER: FR9715246
25 <151> PRIOR FILING DATE: 1997-12-03
27 <160> NUMBER OF SEQ ID NOS: 284
29 <170> SOFTWARE: PatentIn Ver. 2.1

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ERRORRED SEQUENCES

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42 <210> SEQ ID NO: 2
43 <211> LENGTH: 33
44 <212> TYPE: PRT
45 <213> ORGANISM: Human immunodeficiency virus
47 <220> FEATURE:
48 <221> NAME/KEY: LIPID
49 <222> LOCATION: (33)
50 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
52 <400> SEQUENCE: 2
53 Val Gly Phe Pro Val Thr Pro Gln Val Pro Leu Arg Pro Met
E--> 54 Thr Tyr
E--> 55 1 5 10
E--> 56 15
58 Lys Ala Ala Val Asp Leu Ser His Phe Leu Lys Glu Lys Gly
E--> 59 Gly Leu
E--> 60 20 25 30
62 Lys
67 <210> SEQ ID NO: 3
68 <211> LENGTH: 32
69 <212> TYPE: PRT
70 <213> ORGANISM: Human immunodeficiency virus
72 <220> FEATURE:

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format error

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Input Set : A:\Pto.txt
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73 <221> NAME/KEY: LIPID
 74 <222> LOCATION: (32)
 75 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
 77 <400> SEQUENCE: 3
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 E--> 79 Pro Gly
 E--> 80 1 5 10
 E--> 81 15
 83 Val Arg Tyr Pro Leu Thr Phe Gly Trp Cys Tyr Lys Leu Val
 E--> 84 Pro Lys
 E--> 85 20 25 30
 92 <210> SEQ ID NO: 4
 93 <211> LENGTH: 25
 94 <212> TYPE: PRT
 95 <213> ORGANISM: Human immunodeficiency virus
 97 <220> FEATURE:
 98 <221> NAME/KEY: LIPID
 99 <222> LOCATION: (25)
 100 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
 102 <400> SEQUENCE: 4
 103 Glu Trp Arg Phe Asp Ser Arg Leu Ala Phe His His Val Ala
 E--> 104 Arg Glu
 E--> 105 1 5 10
 E--> 106 15
 108 Leu His Pro Glu Tyr Phe Lys Asn Lys
 E--> 109 20 25
 113 <210> SEQ ID NO: 5
 114 <211> LENGTH: 33
 115 <212> TYPE: PRT
 116 <213> ORGANISM: Human immunodeficiency virus
 118 <220> FEATURE:
 119 <221> NAME/KEY: LIPID
 120 <222> LOCATION: (33)
 121 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
 123 <400> SEQUENCE: 5
 124 Asp Leu Asn Thr Met Leu Asn Thr Val Gly Gly His Gln Ala
 E--> 125 Ala Met
 E--> 126 1 5 10
 E--> 127 15
 129 Gln Met Leu Lys Glu Thr Ile Asn Glu Glu Ala Ala Glu Trp
 E--> 130 Asp Arg
 E--> 131 20 25 30
 133 Lys
 138 <210> SEQ ID NO: 6
 139 <211> LENGTH: 33
 140 <212> TYPE: PRT
 141 <213> ORGANISM: Human immunodeficiency virus
 143 <220> FEATURE:
 144 <221> NAME/KEY: LIPID

same

RAW SEQUENCE LISTING DATE: 12/26/2000
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Input Set : A:\Pto.txt
 Output Set: N:\CRF3\12262000\I555780.raw

145 <222> LOCATION: (33)
 146 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
 148 <400> SEQUENCE: 6
 149 Asn Pro Pro Ile Pro Val Gly Glu Ile Tyr Lys Arg Trp Ile
 E--> 150 Ile Leu
 E--> 151 1 5 10
 E--> 152 15
 154 Gly Leu Asn Lys Ile Val Arg Met Tyr Ser Pro Thr Ser Ile
 E--> 155 Leu Asp
 E--> 156 20 25 30
 158 Lys
 163 <210> SEQ ID NO: 7
 164 <211> LENGTH: 34
 165 <212> TYPE: PRT
 166 <213> ORGANISM: Human immunodeficiency virus
 168 <220> FEATURE:
 169 <221> NAME/KEY: LIPID
 170 <222> LOCATION: (34)
 171 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
 173 <400> SEQUENCE: 7
 174 Thr Arg Pro Asn Asn Asn Thr Arg Lys Ser Ile His Ile Gly
 E--> 175 Pro Gly
 E--> 176 1 5 10
 E--> 177 15
 179 Arg Ala Phe Tyr Ala Thr Gly Glu Ile Ile Gly Asp Ile Arg
 E--> 180 Gln Ala
 E--> 181 20 25 30
 183 His Lys
 353 <210> SEQ ID NO: 23
 354 <211> LENGTH: 27
 355 <212> TYPE: PRT
 356 <213> ORGANISM: Simian immunodeficiency virus
 358 <220> FEATURE:
 359 <221> NAME/KEY: LIPID
 360 <222> LOCATION: (27)
 361 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
 364 <400> SEQUENCE: 23
 365 Ser Val Arg Pro Lys Val Pro Leu Arg Ala Met Thr Tyr Lys
 E--> 366 Leu Ala
 E--> 367 1 5 10
 E--> 368 15
 370 Ile Asp Met Ser His Phe Ile Lys Glu Lys Lys
 E--> 371 20 25
 375 <210> SEQ ID NO: 24
 376 <211> LENGTH: 24
 377 <212> TYPE: PRT
 378 <213> ORGANISM: Simian immunodeficiency virus
 380 <220> FEATURE:
 381 <221> NAME/KEY: LIPID

same

RAW SEQUENCE LISTING DATE: 12/26/2000
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Input Set : A:\Pto.txt
 Output Set: N:\CRF3\12262000\I555780.raw

382 <222> LOCATION: (24)
 383 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
 385 <400> SEQUENCE: 24
 386 Glu Lys Gly Gly Leu Glu Gly Ile Tyr Tyr Ser Ala Arg Arg
 E--> 387 His Arg
 E--> 388 1 5 10
 E--> 389 15
 391 Ile Leu Asp Met Tyr Leu Glu Lys
 E--> 392 20
 396 <210> SEQ ID NO: 25
 397 <211> LENGTH: 25
 398 <212> TYPE: PRT
 399 <213> ORGANISM: Simian immunodeficiency virus
 W--> 400 <220> FEATURE:
 401 <221> NAME/KEY: LIPID
 402 <222> LOCATION: (25)
 403 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
 405 <400> SEQUENCE: 25
 406 Asp Trp Glu Asp Tyr Thr Ser Gly Pro Gly Ile Arg Tyr Pro
 E--> 407 Lys Thr
 E--> 408 1 5 10
 E--> 409 15
 411 Phe Gly Trp Leu Trp Lys Leu Val Lys
 E--> 412 20 25
 416 <210> SEQ ID NO: 26
 417 <211> LENGTH: 26
 418 <212> TYPE: PRT
 419 <213> ORGANISM: Simian immunodeficiency virus
 421 <220> FEATURE:
 422 <221> NAME/KEY: LIPID
 423 <222> LOCATION: (26)
 424 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
 426 <400> SEQUENCE: 26
 427 Ser Lys Trp Asp Asp Pro Trp Gly Glu Val Leu Ala Trp Lys
 E--> 428 Phe Asp
 E--> 429 1 5 10
 E--> 430 15
 432 Pro Thr Leu Ala Tyr Thr Tyr Glu Ala Lys
 E--> 433 20 25
 437 <210> SEQ ID NO: 27
 438 <211> LENGTH: 28
 439 <212> TYPE: PRT
 440 <213> ORGANISM: Simian immunodeficiency virus
 442 <220> FEATURE:
 443 <221> NAME/KEY: LIPID
 444 <222> LOCATION: (28)
 445 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
 447 <400> SEQUENCE: 27
 448 Tyr Thr Tyr Glu Ala Tyr Ala Arg Tyr Pro Glu Glu Leu Glu

None

RAW SEQUENCE LISTING
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Input Set : A:\Pto.txt
 Output Set: N:\CRF3\12262000\I555780.raw

E--> 449 Ala Ser
 E--> 450 1 5 10
 E--> 451 15
 453 Gln Ala Cys Gln Arg Lys Arg Leu Glu Glu Gly Lys
 E--> 454 20 25
 458 <210> SEQ ID NO: 28
 459 <211> LENGTH: 32
 460 <212> TYPE: PRT
 461 <213> ORGANISM: Simian immunodeficiency virus
 463 <220> FEATURE:
 464 <221> NAME/KEY: LIPID
 465 <222> LOCATION: (32)
 466 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
 468 <400> SEQUENCE: 28
 469 Lys Phe Gly Ala Glu Val Val Pro Gly Phe Gln Ala Leu Ser
 E--> 470 Glu Gly
 E--> 471 1 5 10
 E--> 472 15
 474 Cys Thr Pro Tyr Asp Ile Asn Gln Met Leu Asn Cys Val Gly
 E--> 475 Asp Lys
 E--> 476 20 25 30
 483 <210> SEQ ID NO: 29
 484 <211> LENGTH: 37
 485 <212> TYPE: PRT
 486 <213> ORGANISM: Simian immunodeficiency virus
 488 <220> FEATURE:
 489 <221> NAME/KEY: LIPID
 490 <222> LOCATION: (37)
 491 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
 493 <400> SEQUENCE: 29
 494 Gln Ile Gln Trp Met Tyr Arg Gln Gln Asn Pro Ile Val Gly
 E--> 495 Asn Ile
 E--> 496 1 5 10
 E--> 497 15
 499 Tyr Arg Arg Trp Ile Gln Leu Gly Leu Gln Lys Cys Val Arg
 E--> 500 Met Tyr
 E--> 501 20 25 30
 503 Asn Pro Thr Asn Lys
 E--> 504 35
 508 <210> SEQ ID NO: 30
 509 <211> LENGTH: 18
 510 <212> TYPE: PRT
 511 <213> ORGANISM: Simian immunodeficiency virus
 513 <220> FEATURE:
 514 <221> NAME/KEY: LIPID
 515 <222> LOCATION: (18)
 516 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
 518 <220> FEATURE:
 W--> 519 <221> NAME/KEY: MOSLRES

same

RAW SEQUENCE LISTING DATE: 12/26/2000
 PATENT APPLICATION: US/09/555,780 TIME: 16:31:15

Input Set : A:\Pto.txt
 Output Set: N:\CRF3\12262000\I555780.raw

520 <222> LOCATION: (1)
 521 <223> OTHER INFORMATION: ACETYLATION
 523 <400> SEQUENCE: 30
 524 Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
 E--> 525 Leu Lys
 E--> 526 1 5 10
 E--> 527 15
 529 Lys Lys
 534 <210> SEQ ID NO: 31
 535 <211> LENGTH: 20
 536 <212> TYPE: PRT
 537 <213> ORGANISM: Human immunodeficiency virus
 539 <220> FEATURE:
 540 <221> NAME/KEY: LIPID
 541 <222> LOCATION: (20)
 542 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
 544 <400> SEQUENCE: 31
 545 Glu Lys Ile Arg Leu Arg Pro Gly Gly Lys Lys Lys Tyr Lys
 E--> 546 Leu Lys
 E--> 547 1 5 10
 E--> 548 15
 550 His Ile Val Lys
 E--> 551 20
 555 <210> SEQ ID NO: 32
 556 <211> LENGTH: 32
 557 <212> TYPE: PRT
 558 <213> ORGANISM: Human immunodeficiency virus
 560 <220> FEATURE:
 561 <221> NAME/KEY: LIPID
 562 <222> LOCATION: (32)
 563 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
 565 <400> SEQUENCE: 32
 566 Ala Ile Phe Gln Ser Ser Met Thr Lys Ile Leu Glu Pro Phe
 E--> 567 Arg Lys
 E--> 568 1 5 10
 E--> 569 15
 571 Gln Asn Pro Asp Ile Val Ile Tyr Gln Tyr Met Asp Asp Leu
 E--> 572 Tyr Lys
 E--> 573 20 25 30
 580 <210> SEQ ID NO: 33
 581 <211> LENGTH: 31
 582 <212> TYPE: PRT
 583 <213> ORGANISM: Human immunodeficiency virus
 585 <220> FEATURE:
 586 <221> NAME/KEY: LIPID
 587 <222> LOCATION: (31)
 588 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
 590 <400> SEQUENCE: 33
 591 His Thr Gln Gly Tyr Phe Pro Asp Trp Gln Asn Tyr Thr Pro

same

RAW SEQUENCE LISTING
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Input Set : A:\Pto.txt
 Output Set: N:\CRF3\12262000\I555780.raw

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E--> 592 Gly Pro
E--> 593 1 5 10
E--> 594 15
596 Gly Val Arg Tyr Pro Leu Thr Phe Gly Trp Leu Tyr Lys Leu
E--> 597 Lys
E--> 598 20 25 30
602 <210> SEQ ID NO: 34
603 <211> LENGTH: 21
604 <212> TYPE: PRT
605 <213> ORGANISM: Plasmodium falciparum
607 <220> FEATURE:
608 <221> NAME/KEY: LIPID
609 <222> LOCATION: (21)
610 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
612 <400> SEQUENCE: 34
613 Leu Leu Ser Asn Ile Glu Glu Pro Lys Glu Asn Ile Ile Asp
E--> 614 Asn Leu
E--> 615 1 5 10
E--> 616 15
618 Leu Asn Asn Ile Lys
E--> 619 20
623 <210> SEQ ID NO: 35
624 <211> LENGTH: 27
625 <212> TYPE: PRT
626 <213> ORGANISM: Plasmodium falciparum
628 <220> FEATURE:
629 <221> NAME/KEY: LIPID
630 <222> LOCATION: (27)
631 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
633 <220> FEATURE:
634 <221> NAME/KEY: MOD_RES
635 <222> LOCATION: (1)
636 <223> OTHER INFORMATION: ACETYLATION
638 <400> SEQUENCE: 35
639 Asp Glu Leu Phe Asn Glu Leu Leu Asn Ser Val Asp Val Asn
E--> 640 Gly Glu
E--> 641 1 5 10
E--> 642 15
644 Val Lys Glu Asn Ile Leu Glu Glu Ser Gln Lys
E--> 645 20 25
649 <210> SEQ ID NO: 36
650 <211> LENGTH: 27
651 <212> TYPE: PRT
652 <213> ORGANISM: Plasmodium falciparum
654 <220> FEATURE:
655 <221> NAME/KEY: LIPID
656 <222> LOCATION: (27)
657 <223> OTHER INFORMATION: PALMITOYL DERIVATIVE
659 <220> FEATURE:

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same

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PATENT APPLICATION: US/09/555,780 TIME: 16:31:15

Input Set : A:\Pto.txt
Output Set: N:\CRF3\12262000\I555780.raw

660 <221> NAME/KEY: MOD_RES
661 <222> LOCATION: (1)
662 <223> OTHER INFORMATION: ACETYLTATION
664 <400> SEQUENCE: 36
665 Leu Glu Glu Ser Gln Val Asn Asp Asp Ile Phe Asn Ser Leu

E--> 666 Val Lys

E--> 667 1 5 10

E--> 668 15

670 Ser Val Gln Gln Glu Gln Gln His Asn Val Lys

E--> 671 20 25

same

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/555,780

DATE: 12/26/2000

TIME: 16:31:17

Input Set : A:\Pto.txt

Output Set: N:\CRF3\12262000\I555780.raw

L:21 M:270 C: Current Application Number differs, Replaced Current Application Number
L:22 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:54 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
M:332 Repeated in SeqNo=2
L:79 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
M:332 Repeated in SeqNo=3
L:104 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
M:332 Repeated in SeqNo=4
L:125 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5
M:332 Repeated in SeqNo=5
L:150 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:6
M:332 Repeated in SeqNo=6
L:175 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:7
M:332 Repeated in SeqNo=7
L:366 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:23
M:332 Repeated in SeqNo=23
L:387 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:24
M:332 Repeated in SeqNo=24
L:400 M:283 W: Missing Blank Line separator, <220> field identifier
L:407 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:25
M:332 Repeated in SeqNo=25
L:428 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:26
M:332 Repeated in SeqNo=26
L:449 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:27
M:332 Repeated in SeqNo=27
L:470 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:28
M:332 Repeated in SeqNo=28
L:495 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:29
M:332 Repeated in SeqNo=29
L:519 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:30
L:525 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:30
M:332 Repeated in SeqNo=30
L:546 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:31
M:332 Repeated in SeqNo=31
L:567 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:32
M:332 Repeated in SeqNo=32
L:592 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:33
M:332 Repeated in SeqNo=33
L:614 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:34
M:332 Repeated in SeqNo=34
L:640 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:35
M:332 Repeated in SeqNo=35
L:666 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:36
M:332 Repeated in SeqNo=36
L:687 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:37
M:332 Repeated in SeqNo=37
L:1664 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:125
M:332 Repeated in SeqNo=125